the second resonator including a second voltage tunable dielectric varactor, each of the first and second voltage tunable dielectric varactors comprising a tunable dielectric layer capable of being operated at room temperature, wherein the first and second resonators comprise:

a ceramic block defining at least two openings extending from a top surface of the ceramic block toward a bottom surface of the ceramic block.

- 2. (Original) The radio frequency filter according to claim 1, wherein one of the dielectric varactors is connected between each of the openings and an outside surface of the ceramic block.
- 3. (Original) The radio frequency filter according to claim 1, wherein the top surface of the ceramic block is partially metallized.
- 4. (Original) The radio frequency filter according to claim 2, further comprising:
  - a first electrode positioned a predetermined distance from a first one of the openings;
- a second electrode positioned a predetermined distance from a second one of the openings;
- a third dielectric varactor coupled between the first electrode and the first one of openings; and
- a fourth dielectric varactor coupled between the second electrode and the second one of the openings.

## 5. Cancel Claim 5

- 6. (New) The radio frequency filter according to claim 4, wherein the second electrode may be a "T-type" electrode.
- 7. (New) The radio frequency filter according to claim 4, further comprising a trapezoidal projection on the second electrode.

8. (New) The radio frequency filter according to claim 4, wherein the varactor comprises a substrate and a first electrode positioned on a first portion of a surface of the substrate; and

a second electrode positioned on second portion of the surface of the substrate and separated from the first electrode to form a gap therebetween; and

wherein a tunable dielectric material may be positioned on the surface of the substrate and in the gap between the first and second electrodes.

- 9. (New) The radio frequency filter according to claim 8, wherein a section of the tunable dielectric material extends along a surface of the first electrode opposite the substrate and wherein the second electrode includes a projection that is positioned on a top surface of the tunable dielectric layer opposite the substrate forming a rectangular shape and extending along the top surface such that it vertically overlaps a portion of the first electrode.
- 10. (New) The radio frequency filter according to claim 1, wherein the tunable dielectric layer may be a thin or thick film.
- 11. (New) The radio frequency filter according to claim 4, further comprising a triangle-type projection on the second electrode.